

Setting up the server. Encountered another error, this time in PowerShell, so I am “back” to using CMD.

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Select Administrator: Command Prompt

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
edb431033afce864c4da20c02a7f982c20703a8ac3855442381e0e4654f794d2

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAME
edb431033afc   httpd:2.4      "httpd-foreground"      9 seconds ago Up 6 seconds   0.0.0.0:80->80/tcp, :::80->80/tcp   apache
b913b2af70b2   blueaxis/ping  "sh -c 'ping $PING_T..." 34 minutes ago Exited (0) 33 minutes ago
quirky_mcnulty
23abdc83e23f   ubuntu:16.04   "/bin/bash"             About an hour ago Exited (0) About an hour ago
adoring_ishizaka

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>
```

Data is not preserved

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Administrator: Command Prompt

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
5f4e8dc7c0847fca22ffd0d51859157245c174ed6eb02116edc9b489bfccd946

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>
```

Creation and deletion of volumes

```
Administrator: Command Prompt

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker volume create myvolume
myvolume

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME
local       myvolume

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker volume rm myvolume
myvolume

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>_
```

Using volumes to preserve data

```
Administrator: Command Prompt

DRIVER      VOLUME NAME

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker volume create httpd_htdocs
httpd_htdocs

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p
80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
3e456b0aa6a52821f1f57ccf87dd5b9958160584af21248273e60fa4bbb9c251

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/loc
al/apache2/htdocs/

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p
80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
b8676e72536930cb0912c32f75e7b7b0a92bd64eeeaedcee34c6f35959fc05dd

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>_
```

Mounting a directory to a container

```
Administrator: Command Prompt
D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes:/usr/local/apache2/htdocs/httpd:2.4 b26629cb4e62f76d625015b98b8f56872b33c009f4d72b7294189634b4d59622
D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>
D:\BlueAxis\Documents\UPD\Code\school\197\ME8_Containerization_and_Docker\5-volumes>
```